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CONTRACT CERTIFICATE

(For Other Works)

SBR.No

No. 2nd and Part bill Date.....20.....

Division : RR Nagar Division Sub-Division : Yashwanthapura -Sub Division

Estimate Cost (Rs.) :-1000.00 Lakhs

Bill Received No .....Dated.....Cash Book Voucher No. ....dated.....

Scheduled Docket No: Head of Account : P-3744-CM D.R. No:

Name of Work (as per sanctioned estimate): Comprehensive Development of Roads, Drains, Special repairs to buildings and other works in Sunnadagoodu, Ambedkarnagar, Mohan Kumar nagar, Poornapura, Ramabhovi Colony, Jalahalli Harijana, Siddarthanagar, Khathanagar, Ashrayanagar, Karadigudi, Peenya 4th block A K Colony and Surrounding areas of Slums in R R Nagar Constituency under PACKAGE- 2019-20 RN-DIV-(13).

Job Code:- 017-20-000009

Name of Contractor and Full Address:.

Reference to Agreement No /Wo No: EE/RRND/WO.NO/000182/2020-21/ Dt:- 03-03-2021

Certified that the measurements were taken by me on 30/09/2021 and recorded of Pages No 617332 to 617

Of measurement Book No : 6174 and that the work is satisfactorily executed.

Signature of Contractor

Officer-in-charge of work

Certified that the measurements were taken by me on 30/09/2021 ...and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

Memorandum of Payment

1)	Total value of work done or supplies made as per account within	60558423
2)	Deduct amount to be held in reserve being.....percent Rs.....	34000944
3)	Balance	23712035
4)	Deduct Payment :	2845444
	a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D No.....-	26557479
	Amount adjusted towards cash advance recovery of	1186000
	b) Payments cost store or other materials supplied.	237130
	Now made recovery of amount creditable to this/other work Amount paid on this bill Cheque/Cash	237130
5)	Balance being unpaid value of work done held in reserve	237120
6)	Deduct cash advance made on the office Cash Book Voucher No..... date .....less adjustments	237120
7)	Net amount due to or from contractor Unadjusted items	318520
8)	Advance to contractor for materials brought to site (as detailed) within value of Government materials supplied	23739
		2476879
		24080700
		26557479

Geo Investigation Report & Yield Report, photos of existing buildings

Contractor's Signature

Received Rs... .....(in works)

.....

By Cash and by adjustment of Payment as per memorandum.

Witnesses:

1.

2

Dated.....

Signature of Contractor

Paid by me by cheque No..... Dated.....

Cash Rs..... Dated.....

Initials of Officer Making Payment

Admitted Rs. 26557479.00

Cheque Rs. 24080700. (For use in the Office)

Two Crore Fourty Lakh Eighty Thousand Seven Hundred Only

Adjustment Rs. 2476779.00

Executive Engineer

Case Worker | Accounts Superintendent | Executive Engineer

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Sl.No	Description of work	Unit	Schedule B		Previous Measurement		Present Measurement					
			Qty	Rate Rs.	Qty	Cost	Qty	Rate Rs.	Cost	Qty.	Cost	
1	Geophysical investigation of site for Sinking borewell for supplying drinking water to the habitations either through the hand pump,MWS,P.W.S.S by vertical electrical sounding by adpoting venner or Schlumberger's method,including reconnaissance survey of Geological formation. Geophysical investigation of existing ground indecundity its quality & acceptability of the users indicating the location of site,recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre inconsolidated formation for proper seating of casing pipe,depth of drilling required to cover full depth of aquifer proposed to be tapped,probable yield and other information required including transportation of instrument and accesories to work site,engaging technical personal and labour required etc.,	No	12.00	3806.00	0.00	0.00	12.00	3806.00	45672.00	12.00	45672.00	
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burden upto 20 M fixing of casing pipes, collars and cap with necessary cutting and threading including transportation of rig and supporting vehicals, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour .(excluding cost of casing pipes, collars, cap ect.) 0 to 50 m	Rmt	600.00	350.00	0.00	0.00	600.00	350.00	210000.00	600.00	210000.00	
3	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burden upto 20 M fixing of casing pipes, collars and cap with necessary cutting and threading including transportation of rig and supporting vehicals, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour .(excluding cost of casing pipes, collars, cap ect.) 50 to 100 m	Rmt	600.00	446.00	0.00	0.00	600.00	446.00	267600.00	600.00	267600.00	
4	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burden upto 20 M fixing of casing pipes, collars and cap with necessary cutting and threading including transportation of rig and supporting vehicals, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour .(excluding cost of casing pipes, collars, cap ect.) 100 to 150 m	Rmt	600.00	461.00	0.00	0.00	600.00	461.00	276600.00	600.00	276600.00	
5	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burden upto 20 M fixing of casing pipes, collars and cap with necessary cutting and threading including transportation of rig and supporting vehicals, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour .(excluding cost of casing pipes, collars, cap ect.) 150 to 200 m	Rmt	600.00	541.00	0.00	0.00	600.00	541.00	324600.00	600.00	324600.00	

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	Description of work	Unit	Schedule B		Previous Measurement		Present Measurement				
			Qty	Rate Rs.	Qty	Cost	Qty	Rate Rs.	Cost	Qty.	Cost
6	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burden upto 20 M fixing of casing pipes, collars and cap with necessary cutting and threading including transportation of rig and supporting vehicals, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour .(excluding cost of casing pipes, collars, cap ect.) 200 to 250 m	Rmt	600.00	640.00	0.00	0.00	600.00	640.00	384000.00	600.00	384000.00
7	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burden upto 20 M fixing of casing pipes, collars and cap with necessary cutting and threading including transportation of rig and supporting vehicals, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour .(excluding cost of casing pipes, collars, cap ect.) 250 to 300 m	Rmt	600.00	707.00	0.00	0.00	600.00	707.00	424200.00	600.00	424200.00
8	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burden upto 20 M fixing of casing pipes, collars and cap with necessary cutting and threading including transportation of rig and supporting vehicals, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour .(excluding cost of casing pipes, collars, cap ect.) 300 to 350 m	Rmt	600.00	833.00	0.00	0.00	600.00	833.00	499800.00	600.00	499800.00
9	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burden upto 20 M fixing of casing pipes, collars and cap with necessary cutting and threading including transportation of rig and supporting vehicals, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour .(excluding cost of casing pipes, collars, cap ect.) 350 to 400 m	Rmt	600.00	909.00	0.00	0.00	600.00	909.00	545400.00	600.00	545400.00
10	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burden upto 20 M fixing of casing pipes, collars and cap with necessary cutting and threading including transportation of rig and supporting vehicals, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour .(excluding cost of casing pipes, collars, cap ect.) 400 to 420 m	Rmt	240.00	1140.00	0.00	0.00	240.00	1140.00	273600.00	240.00	273600.00
11	Providing and fixing 250mm dia PVC (casing pipe) As Per Direction of Engineer Incharge	Rmt	144.00	2626.00	0.00	0.00	144.00	2626.00	378144.00	144.00	378144.00
12	Supply of ISI Mark 175mm nominal Bore, Plain end steel casing Pipe-grade of steel Fee 4100 of wakk thickness 504mm thick confirming to IS 4270 2001 and latest amendments, electric resistance welded steel electric or basic oxygen process in fandom length of 5 to 7mtr. Both ends threaded confirming to Is554/1985 one end fixed with socket with screwed pipes. All pipes and other end confirming to IS 270 2001 free from defectes. The tubes shall be resonably shall be reasonably Weighting 25.10 kg/mtr (Inclusive straigth should be with ISI Marking Collar - medium duty. As Per of all taxes and duties) Prices include	Rmt	600.00	1338.00	0.00	0.00	600.00	1338.00	802800.00	600.00	802800.00

Duplicate / Triplicate

SBR No

Engineer of Engineer Incharge

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Sl.No	Description of work	Unit										
			Qty	Rate Rs.	Qty	Cost	Qty	Rate Rs.	Cost	Qty.	Cost	
13	Providing 175mm Dia M.S. CollarAs Per Direction of Engineer Incharge	No	100.00	150.00	0.00	0.00	100.00	150.00	15000.00	100.00	15000.00	
14	Providing 175mm dia Bore Cap CE (M) (As Per Direction of Engineer Incharge	No	12.00	101.00	0.00	0.00	12.00	101.00	1212.00	12.00	1212.00	
15	Atalanta suguna CRI KIRLOSKAR and other equipments pumps 10.00 HP/7.5 KV (20 stage) As Per Direction of Engineer Incharge	No	12.00	50455.00	0.00	0.00	12.00	50455.00	605460.00	12.00	605460.00	
16	Providing and fixing in trenches galvinised/mild steel tube 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for seperately) including cost of all materials, labour charges,HOM of equipment and testing complete as per specifications. Specification No. KBS 13.2.14/13.6 As Per Direction of Engineer Incharge	Rmt	4440.00	415.00	0.00	0.00	4440.00	415.00	1842600.00	4440.00	1842600.00	
17	Supplying and drawing 3 core flat PVC sheathed submersible pump cable maufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 to IS 8130-1984 and virgin grade PVC insulation and power coating extruded PVC sheathed suitable for working voltage upto 1100 volts with specified IS 694:1990 and confirming to the attwached GTP of group A 3CX4.0 sq.mm (As Per Direction of Engineer Incharge	Rmt	9000.00	128.00	0.00	0.00	9000.00	128.00	1152000.00	9000.00	1152000.00	
18	Providing and fixing in position 50mm Nominal bore non-return valve vertical type of approved make including cost of all materials,labour and HOM of equipment with all leads complete as per specificationsAs Per Direction of Engineer Incharge	No	12.00	1359.00	0.00	0.00	12.00	1359.00	16308.00	12.00	16308.00	
19	Spplying and fixing 50mm GI Union.As Per Direction of Engineer Incharge	No	12.00	226.00	0.00	0.00	12.00	226.00	2712.00	12.00	2712.00	
20	Spplying and fixing 50mm GI Elbow.As Per Direction of Engineer Incharge	No	12.00	113.00	0.00	0.00	12.00	113.00	1356.00	12.00	1356.00	
21	Spplying and fixing 50mm GI Nipple.As Per Direction of Engineer Incharge	No	12.00	105.00	0.00	0.00	12.00	105.00	1260.00	12.00	1260.00	
22	Spplying and fixing 50mm GI Hose colleresAs Per Direction of Engineer Incharge	No	744.00	104.00	0.00	0.00	744.00	104.00	77376.00	744.00	77376.00	
23	Supplying and fixing 20" x 20" x 2.5" polished wood board made of not less than 15mm thick plank on both the sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., P.no.44 / I no. 6.6.6 As Per Direction of Engineer Incharge	No	12.00	305.00	0.00	0.00	12.00	305.00	3660.00	12.00	3660.00	
24	Supplying and fixing miniature circuit breakers on existing MCB distribution board using necessary fixing materials and 'C' type curve indicator ON/OFF energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.As Per Direction of Engineer Incharge	No	12.00	1955.00	0.00	0.00	12.00	1955.00	23460.00	12.00	23460.00	
25	Supplying of TPST with rewirable porcelain channels in SM encloser made out of 14 SWG powder coated point of approved colour 32 amps (As Per Direction of Engineer Incharge	No	12.00	1818.00	0.00	0.00	12.00	1818.00	21816.00	12.00	21816.00	
26	Supplying and fixing LED type panel board indicating lamp with required colour suitable for 220 V AC 50 HZ 12/24 V DCAs Per Direction of Engineer Incharge	No	12.00	434.00	0.00	0.00	12.00	434.00	5208.00	12.00	5208.00	
27	Suppling fully automatic star delta starter unit push button type with suitable wires 2 conductors and adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts and wired after fixing to the existing wooden board for motor. Direction of Engineer Incharge	No	12.00	6464.00	0.00	0.00	12.00	6464.00	77568.00	12.00	77568.00	

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	Description of Work		Qty	Rate Rs.	Qty	Cost	Qty	Rate Rs.			
28	Supplying and fixing single phase preventer using necessary wires over an existing panel board suitable for motar up to 20 HP capacities.As Per Direction of Engineer Incharge	No	12.00	752.00	0.00	0.00	12.00	752.00	9024.00	12.00	9024.00
29	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade multistrand copper conductor single core wire in open or concealed system of wiring as per IS 694:1990 & conforming to the attached GTP of group A. 4 sqmmAs Per Direction of Engineer Incharge	Mtrs	240.00	45.00	0.00	0.00	240.00	45.00	10800.00	240.00	10800.00
30	Supplying fixing and wiring heavy duty low voltage capacitors conforming to IS 2834 phase 400/440 volts grade, for power factor improvement of rotating machineryAs Per Direction of Engineer Incharge	No	48.00	404.00	0.00	0.00	48.00	404.00	19392.00	48.00	19392.00
31	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cotouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia As Per Direction of Engineer Incharge	No	12.00	3030.00	0.00	0.00	12.00	3030.00	36360.00	12.00	36360.00
32	Digging of trench of 0.36mtrs deepx0.5 mtrs wide refilling the trench to the required gorund level and consolidating etc., complete As Per Direction of Engineer Incharge	Mtrs	96.00	103.00	0.00	0.00	96.00	103.00	9888.00	96.00	9888.00
33	Supplying laying 1.1 KV class LT UG cable having aluminium conductor PVC insulated extruded inner shethed galvanised steel strip (excep 2cx 10 sqmm wire armoured) confirming to IS-3975:1990 (No. of strip indicated in GTP) and extruded PVC outer sheathed armoured cable with specified IS-1554,part-1:1988 and confirming to the attached GTP of group A 4 core 16 sq mm As Per Direction of Engineer Incharge	Mtrs	120.00	152.00	0.00	0.00	120.00	152.00	18240.00	120.00	18240.00
34	Labour charge for laying 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe/ on wall / on poles as required in existing trench/duct. 6 sq mm to 16 sq mmAs Per Direction of Engineer Incharge	No	300.00	12.00	0.00	0.00	300.00	12.00	3600.00	300.00	3600.00
35	Supplying and fixing class-A(medium duty) GI pipe wall thickness not less then 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1KV class 40mmAs Per Direction of Engineer Incharge	Rmt	24.00	338.00	0.00	0.00	24.00	338.00	8112.00	24.00	8112.00
36	Supplying and fixing LT cast iron pot heads suitable for 1.1KV class UG cable filled with necessary bitumen / insulating compound complete with terminals,clamps bolts and nuts and washer etc.,complete for 16 sq mm as per specificationsAs Per Direction of Engineer Incharge	No	12.00	273.00	0.00	0.00	12.00	273.00	3276.00	12.00	3276.00
37	Supplying and fixing porcelain fuse channel with cut out on the existing wooden block and wiring complete 63 ampsAs Per Direction of Engineer Incharge	No	36.00	229.00	0.00	0.00	36.00	229.00	8244.00	36.00	8244.00

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SI.No	Description of work	Unit	Qty	Rate Rs.	Qty	Cost	Qty	Rate Rs.	Cost	Qty.	Cost	
38	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials upto a lead of 1000 meters, stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202As Per Direction of Engineer Incharge	Cum	401.27	962.00	0.00	0.00	401.27	962.00	386024.00	401.27	386024.00	
39	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clods complete as per specifications. specification. No. KBS 2.1(b)/ 2.3.5 As Per Direction of Engineer Incharge	Cum	601.91	481.00	0.00	0.00	601.91	481.00	289518.00	601.91	289518.00	
40	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (external work) - 50mm nominal OD pipes As Per Direction of Engineer Incharge	Mtr	2048.58	462.00	0.00	0.00	2048.58	462.00	946444.00	2048.58	946444.00	
41	Making connection of G.I.distribution branch with G.I.main of 25mm to 40mm. Nominal bore, including cutting and threading the pipes,providing and fixing Tee, nuts,labour for all item of works,testing and HOM of equipments complete as per specifications.As Per Direction of Engineer Incharge	Each	241.00	517.00	0.00	0.00	241.00	517.00	124597.00	241.00	124597.00	
42	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete. (external work). - 20mm nominal OD pipesAs Per Direction of Engineer Incharge	Mtr	2651.00	168.00	0.00	0.00	2651.00	168.00	445368.00	2651.00	445368.00	
43	Providing and fixing to wall, ceiling and floor Medium density polyethylene pipes 6.00 kgf/sq cm working pressure 25mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications Specification No.KBS 13.2.15.1 / 13.9As Per Direction of Engineer Incharge	Mtr	8000.00	138.00	0.00	0.00	3102.00	138.00	428076.00	3102.00	428076.00	
44	Refilling available around earth pipe lines,cables in layers mot exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. And lift upto 1.5m. Including cost of all labour complete as per specificationsAs Per Direction of Engineer Incharge	Cum	421.34	130.00	0.00	0.00	421.34	130.00	54774.00	421.34	54774.00	
45	Loading and unloading of stone boulder/stone aggregates/sand/kanker/ loading with maximum KSRRB M100-1 Placing tipper at loading point, excluding time for front end loader,dumping, turning for return trip, excluding MORTH Chapter haulage and return trip complete as per specification 1As Per Direction of Engineer Incharge	Cum	581.84	99.00	0.00	0.00	581.84	99.00	57603.00	581.84	57603.00	

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	Description of work	Unit	Qty	Rate Rs.	Qty	Cost	Qty	Rate Rs.	Cost	Qty.	Cost
46	Providing and fixing in position brass gate valve with C.I.wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials,labour and HOM of equipments with all leads complete as per specifications. As Per Direction of Engineer Incharge	Each	12.00	1862.00	0.00	0.00	12.00	1862.00	22344.00	12.00	22344.00
47	: Providing and fixing in position brass stop cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3As Per Direction of Engineer Incharge	Each	491.00	151.00	0.00	0.00	491.00	151.00	74141.00	491.00	74141.00
48	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2.As Per Direction of Engineer Incharge	Cum	300.95	5462.00	0.00	0.00	0.00	5462.00	0.00	0.00	0.00
49	Supplying water storage tanks made of virgin polymer (LLDPE) with two layers outer Black or Blue and inner White layer of approved quality and make, conforming to I.S.I./ISO/SSI specifications. As Per Direction of Engineer Incharge	Ltr	250000.00	5.90	0.00	0.00	396.62	5.90	2340.00	396.62	2340.00
50	Supplying, installation, testing and commissioning of solar hot water heater comprising of solar Flat Plate Collector (FPC) of size 2120x1040x100mm and stainless steel hot water storage tank with stainless steel heat exchanger absorber made of copper sheet and copper tube of following capacity aluminium box collector with appropriate capacity electrical back up arrangement excluding inlet and out let pipes.SS Model with 100mm thick of 48Kg/M3 density Rock wool insulation with 22SWG Aluminium cladding. 200 Liter capacity As Per Direction of Engineer Incharge	No's	250.00	49086.00	0.00	0.00	0.00	49086.00	0.00	0.00	0.00
51	Dismantling of cement concrete pavement by mechanical means using neumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifcations. MORTH Specification No. 202 As Per Direction of Engineer Incharge	Cum	1376.79	962.00	0.00	0.00	227.67	962.00	219019.00	227.67	219019.00
52	Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3As Per Direction of Engineer Incharge	Cum	1388.97	139.00	0.00	0.00	1388.08	139.00	192943.00	1388.08	192943.00
53	Providing and fixing unplasticised PVC pipes with working pressure 10 kg/sq.cm with pipe fittings, clips, making good the floor, including cost of all materials, labour charges, HOM and testing complete as per specifications.-do- with 225mm outer dia KPWD S.R 2018-19 As Per Direction of Engineer Incharge	Mtr	679.32	2044.00	0.00	0.00	679.32	2044.00	1388531.00	679.32	1388531.00

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	Description of work	Unit	Qty	Rate Rs.	Qty	Cost	Qty	Rate Rs.	Cost	Qty.	Cost
54	Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specifcation No. 408. As Per Direction of Engineer Incharge	Cum	66.44	4524.00	0.00	0.00	66.44	4524.00	300593.00	66.44	300593.00
55	Providing and laying reinforced cement concrete pipe NP2 for culverts including pointing ends, and fixing collars with cement mortar 1:2 curing complete as per specifications. Specifications. As Per Direction of Engineer Incharge	Mtr	125.60	1131.00	0.00	0.00	125.60	1131.00	142054.00	125.60	142054.00
56	Constructing brick masonry circular type manhole 0.91 m internal dia at bottom, 1.67 m deep and 0.56m dia at top with table moulded non-modular bricks of 50 class designation 50 in cement mortar 1:4, inside cement plastered 12mm thick with cement mortar 1:3, finished with a floating coat of neat cement, foundation concrete M 10 using 40mm and downsize granite metal and making necessary channel in cement concrete M 50 with 20mm and downsize granite metal finished with a floating coat of neat cement, with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diametre confirming IS :12592, total weight cover and frame to be not less than 182 kg, fixed in cement concrete 1:2:4, 20mm and downsize broken granite metal, providing and removing centering, shuttering including cost of materials, labour charges, HOM of mechineries complete as per specifications. (Excavation, footrests and 12mm thick cement plaster on the external surface shall be paid seperately) Specification No. KBS 12.4KPWD As Per Direction of Engineer Incharge	Nos	80.00	25998.00	0.00	0.00	80.00	25998.00	2079840.00	80.00	2079840.00
57	Constructing brick masonry inspection chamber for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS. – do – 450x450mm and 450mm depth (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 450x450mAs Per Direction of Engineer Incharge	Nos	180.00	5674.00	0.00	0.00	180.00	5674.00	1021320.00	180.00	1021320.00
58	Making connection of drain or sewer line of size 230 to 300 mm external dia with existing manhole including breaking into and making good the walls, floors with cement concrete M 15 with 20mm and downsize granite metal, cement plastered on both sides of mix 1:3, finished with a floating coat of neat cement, and making necessary channels for the drain, including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS As Per Direction of Engineer Incharge	Nos	120.00	3734.00	0.00	0.00	120.00	3734.00	448080.00	120.00	448080.00

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	Description of work	Unit	Qty	Rate Rs.	Qty	Cost	Qty	Rate Rs.	Cost	Qty.	Cost
59	Providing 20mm square M.S footrest and fixing in manhole with M 10 cement concrete block of 20x20x10cms, using 20mm and down size metal of size including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 12.4.6 P.No731.NO.11.44	Nos	80.00	295.00	0.00	0.00	80.00	295.00	23600.00	80.00	23600.00
60	Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials, labour charges, HOM of acquirements and testing complete as per specifications. - 110mm dia	M	750.00	465.00	0.00	0.00	750.00	465.00	348750.00	750.00	348750.00
61	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifcations.As Per Direction of Engineer Incharge	Cum	833.38	130.00	0.00	0.00	833.38	130.00	108340.00	833.38	108340.00
62	Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifcations. MORTH -100/ Chapter 1 As Per Direction of Engineer Incharge	Cum	1932.38	99.00	0.00	0.00	782.37	99.00	77455.00	782.37	77455.00
63	Providing, laying, spreading and compacting specified graded sand, gravel or any other course material 60% and crushed stone aggregates of granite / trap / basalt 40% in sub-base course including premixing the material at OMC in mechanical mixer (Pug mill), carriage of mixed material up to 1km, spreading in uniform layers with motor grader on a prepared base and compacting with power roller to achieve the desired density including all materials, labour, HOM of machinery, lighting, guarding, barricading and maintenance of diversion complete as per specifications. MORTH Chapter 4As Per Direction of Engineer Incharge	Cum	697.85	1336.00	0.00	0.00	183.24	1336.00	244809.00	183.24	244809.00
64	Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3As Per Direction of Engineer Incharge	Cum	10472.17	139.00	4013.78	557915.00	683.01	139.00	94939.00	4696.79	652854.00
65	Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 As Per Direction of Engineer Incharge	Sqm	6433.94	6.00	0.00	0.00	1517.81	6.00	9107.00	1517.81	9107.00
66	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision.As Per Direction of Engineer Incharge	Cum	965.09	2015.00	0.00	0.00	227.67	2015.00	458757.00	227.67	458757.00

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	Description of work	Unit										
			Qty	Rate Rs.	Qty	Cost	Qty	Rate Rs.	Cost	Qty.	Cost	
67	Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. . MORTH Specification No. 601As Per Direction of Engineer Incharge	Cum	965.09	3924.00	0.00	0.00	227.67	3924.00	893380.00	227.67	893380.00	
68	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fne aggregates at 0.46 cum,Coarse and fne aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fxed side form work (steel channel, laying and fxing of 125 micron thick polythene flm, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and fnished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint fller, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, fnishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per	Cum	965.09	5263.00	0.00	0.00	227.67	5263.00	1198231.00	227.67	1198231.00	
69	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.. KPWD S.R 2018-19 As Per Direction of Engineer Incharge	Sqm	6433.94	73.00	0.00	0.00	1517.81	73.00	110800.00	1517.81	110800.00	
70	Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifcations. MORTH Specifcation No. 408. As Per Direction of Engineer Incharge	Cum	572.63	4527.00	358.76	1624125.00	0.00	4527.00	0.00	358.76	1624125.00	
71	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fne aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specifcation No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifcations. -do- Wall & bottom thickness 15cmAs Per Direction of Engineer Incharge	Cum	1355.39	7151.00	1355.39	9692400.00	0.00	7151.00	0.00	1355.39	9692400.00	

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	Description of work	Unit	Qty	Rate Rs.	Qty	Cost	Qty	Rate Rs.	Cost	Qty.	Cost
72	TMT/MS Bar Reinforcement KSRRB M2200-6. Supplying, fitting and placing TMT bar reinforcement in sub-structure complete as per drawing and Technical Specifications complete as per specificationsMORTH SpecificationAs Per Direction of Engineer Incharge	ton	88.56	73050.00	88.56	6469264.00	0.00	73050.00	0.00	88.56	6469264.00
73	Providing & laying precast drain cover slab of 100 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(0.90 x 0.60 x 0.10) (Approved Data rate)	Sqm	2507.38	2337.00	1331.56	3111856.00	1172.52	2337.00	2740179.00	2504.08	5852035.00
74	Providing & laying precast drain cover slab of 250 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.2 x 0.60 x 0.10) Approved Data rate(18-11-2016)	Sqm	702.00	5418.00	629.82	3412365.00	72.18	5418.00	391071.00	702.00	3803436.00
75	SUPPLYING AND FIXING OF LEG PRESS DOUBLE OF SAFE AREA : 2.8MTR X 1.5MTR, CENTER PIPE : 100 NB GI B-CLASS PIPE, SEAT FRAME : 32 NB GI B-CLASS Pipe, BLOCK REST : LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN: Seamless Pipe & Round Bar, BEARINGS : PREMENENT SEALED OF REPUTED MAKE (FAG/SKF), STOPER : PU ROD, NUT BLOTS CAP: Nylon 66 injection moulded, NUT BOLTS : HIGH TENSILE STELL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70-80 MICRON THICKNESS AS PER ENGINEER IN CHARGE OF THE WORK.	Nos	2.00	90900.00	2.00	181800.00	0.00	90900.00	0.00	2.00	181800.00
76	SUPPLYING AND FIXING OF FUN WALKER DOUBLE OF SAFE AEA : 3MTR X 2MTR, MAIN FRAME : 100 NB GI B-Class Pipe, LEG FRAME:32 NB GI B-CLASS Pipe, HANDLE FRAME :25 NB GI B- CLASS Pipe, FOOT REST: LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : SEAMELESS Pipe & Round Bar, NUT BOLT CAP : Nylon 66 injection moulded, BEARING: PERMANANT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70-80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK	Nos	3.00	151500.00	3.00	454500.00	0.00	151500.00	0.00	3.00	454500.00
77	SUPPLYING AND FIXING OF PENDULUM DOUBLE OF SAFE AEA : 2.5MTR X 1MTR, MAIN FRAME : 100 NB GI B-Class Pipe, LEG FRAME:40 NB GI B-CLASS Pipe, HANDLE FRAME :25 NB GI B- CLASS Pipe, SEAT: LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : SEAMELESS Pipe & Round Bar, NUT BOLTS moulded, BEARING CAP : Nylon 66 injection moulded, BEARING: PERMANANT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70-80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK	Nos	2.00	90900.00	2.00	181800.00	0.00	90900.00	0.00	2.00	181800.00

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	Description of work	Unit	Schedule B				Tender quantities				Executed quantities			
			Qty	Rate Rs.	Qty	Cost	Qty	Rate Rs.	Cost		Qty.	Cost		
78	SUPPLYING AND FIXING OF SHOULDER PRESS DOUBLE OF SAFE AEA : 4MTR X 2.5MTR OF CENTRE PIPE: 100 NB GI B-Class Pipe, SEAT FRAME : 32 NB GI B-CLASS Pipe, HANDLE FRAME:32 NB & 15 NB GI B-CLASS Pipe, Handle Cover : TPEE injection moulded, SEAT REST: LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : SEAMELESS Pipe & Round Bar, NUT BOLTS CAP : Nylon 66 injection moulded, BEARING: PERMANANT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, NUT BOLT CAP : Nylon 66 injection moulded, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70-80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK	Nos	2.00	181800.00	2.00	363600.00	0.00	181800.00	0.00		2.00	363600.00	
79	SUPPLYING AND FIXING OF CYCLE TWO WAY OF SAFE AEA : 2.5MTR X 1MTR, MAIN FRAME : 100 NB GI B-Class Pipe, ARM FRAME:40 NB GI B-CLASS Pipe, HANDLE FRAME :20 NB GI B-CLASS Pipe, SEAT: LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : SEAMELESS Pipe & Round Bar, NUT BOLTS CAP : Nylon 66 injection moulded, BEARING: PERMANANT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70-80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK	Nos	2.00	106050.00	2.00	212100.00	0.00	106050.00	0.00		2.00	212100.00	
80	SUPPLYING AND FIXING OF TAI CHI SPINNER DOUBLE OF SAFE AEA : 2MTR DIA, MAIN FRAME : 100 NB GI B-Class Pipe, HANDLE FRAME:32 NB GI B-CLASS Pipe, SPINNING RING: LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : SEAMELESS Pipe & Round Bar, NUT BOLTS CAP : Nylon 66 injection moulded, BEARING: PERMANANT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70-80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK	Nos	3.00	90900.00	3.00	272700.00	0.00	90900.00	0.00		3.00	272700.00	
81	SUPPLYING AND FIXING OF TWISTER THREE WAY OF SAFE AEA : 2.5 MTR DIA, MAIN FRAME : 100 NB GI B-Class Pipe, ARM FRAME:32 NB GI B- CLASS Pipe, HANDLE FRAME:20 NB GI B-CLASS Pipe, TWISTER DISC: LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : SEAMELESS Pipe & Round Bar, NUT BOLTS CAP : Nylon 66 injection moulded, BEARING: PERMANANT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70-80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK	Nos	2.00	90900.00	2.00	181800.00	0.00	90900.00	0.00		2.00	181800.00	

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Sl.No	Description of work	Unit	Qty	Rate Rs.	Qty	Cost	Qty	Rate Rs.	Cost	Qty.	Cost
82	SUPPLYING AND FIXING OF CHEST PRESS DOUBLE OF SAFE AEA : 4MTR X 2.5MTR OF CENTRE PIPE: 100 NB GI B-Class Pipe, SEAT FRAME : 32 NB GI B-Class Pipe, HANDLE FRAME:32 NB & 15 NB GI B-CLASS Pipe, Handle Cover : TPEE injection moulded, SEAT REST: LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : SEAMELESS Pipe & Round Bar, BEARING: PERMANANT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS CAP : Nylon 66 injection moulded, NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70-80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK	Nos	1.00	181800.00	1.00	181800.00	0.00	181800.00	0.00	1.00	181800.00
83	SUPPLYING AND FIXING OF FUN ROVER OF SAFE AEA : 2.5MTR X 1.5MTR, MAIN FRAME : 80 NB GI B-Class Pipe, SEAT FRAME:80 NB GI B-CLASS Pipe, HANDLE FRAME: 32NB GI B-CLASS PIPE, SEAT: LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : SEAMELESS Pipe & Round Bar, NUT BOLTS CAP : Nylon 66 injection moulded, BEARING: PERMANANT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70-80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK	Nos	3.00	62620.00	3.00	187860.00	0.00	62620.00	0.00	3.00	187860.00
84	SUPPLYING AND FIXING OF FUN RIDER OF SAFE AEA : 2.5MTR X 1.5MTR, MAIN FRAME : 80 NB GI B-Class Pipe, SEAT FRAME:80 NB GI B-CLASS Pipe, HANDLE FRAME: 32NB GI B-CLASS PIPE, SEAT: LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : SEAMELESS Pipe & Round Bar, NUT BOLTS CAP : Nylon 66 injection moulded, BEARING: PERMANANT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70-80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK	Nos	1.00	151500.00	1.00	151500.00	0.00	151500.00	0.00	1.00	151500.00
85	SUPPLYING AND FIXING OF STEP TRAINER OF SAFE AEA : 3MTR X 1.5MTR, MAIN FRAME : 100 NB GI B-Class Pipe, BOTTOM FRAME:40 NB GI B-CLASS Pipe, HANDLE FRAME: 32NB &15 NB GI B- CLASS PIPE, Handle cover: TPEE injection moulded, FOOTREST: LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : SEAMELESS Pipe & Round Bar, NUT BOLTS CAP : Nylon 66 injection moulded, BEARINGS: PERMANANT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70-80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK	Nos	2.00	183315.00	2.00	366630.00	0.00	183315.00	0.00	2.00	366630.00

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	Description of work	Unit	Schedule B		Previous Measurement							
			Qty	Rate Rs.	Qty	Cost	Qty	Rate Rs.	Cost	Qty.	Cost	
86	SUPPLYING AND FIXING OF ROLLING BARREL DOUBLE OF SAFE AEA : 2.8MTR X 1.5MTR OF CENTRE PIPE: 100 NB GI B-Class Pipe, SEAT FRAME : 32 NB GI B-Class Pipe, BACK REST: LLDP Plastic, SEAT REST: LLDP Plastic, FOOT REST: LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : SEAMELESS Pipe & Round Bar, BEARING: PERMANANT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS CAP : Nylon 66 injection moulded, NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70-80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK	Nos	2.00	145440.00	2.00	290880.00	0.00	145440.00	0.00	2.00	290880.00	
87	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification	Sqm	557.66	1303.00	557.66	726629.00	0.00	1303.00	0.00	557.66	726629.00	
88	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications(Page - 25/ Item no.5.6)	Cum	29.40	4920.00	29.40	144648.00	0.00	4920.00	0.00	29.40	144648.00	
89	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. (Page - 13/ Item no.4.6)	Cum	19.51	5870.00	19.51	114500.00	0.00	5870.00	0.00	19.51	114500.00	
90	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification	Sqm	857.74	1263.00	857.74	1083324.00	0.00	1263.00	0.00	857.74	1083324.00	
91	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete	no's	130.00	354.00	130.00	46020.00	0.00	354.00	0.00	130.00	46020.00	

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Sl.No	Description of work	Unit	Schedule B				Previous Measurement				Present Measurement			
			Qty	Rate Rs.	Qty	Cost	Qty	Rate Rs.	Cost	Qty.	Cost			
92	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete)(Page - 266/ Item no.37.2)	mtr	115.50	920.00	115.50	106260.00	0.00	920.00	0.00	115.50	106260.00			
93	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint.(Page - 266/ Item no.37.4)	mtr	210.00	437.00	210.00	91770.00	0.00	437.00	0.00	210.00	91770.00			
94	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint.(Page - 266/ Item no.37.3)	Sqm	196.00	765.00	196.00	149940.00	0.00	765.00	0.00	196.00	149940.00			
95	Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeeding 50 m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and nealty dressed as per specifications	Cum	18.57	171.00	0.00	0.00	0.00	171.00	0.00	0.00	0.00			
96	KSRB -2-2.1 : Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. after breaking of clods complete as per specifications.	Cum	73.30	326.00	0.00	0.00	0.00	326.00	0.00	0.00	0.00			
97	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix M7.5 with OPC cement @ 180 kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 5.75 cum machine mixed, concrete laid in layers not exceeding 15 cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specification.	Cum	9.20	5565.00	0.00	0.00	0.00	5565.00	0.00	0.00	0.00			

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Sl.No	Description of work	Unit										
			Qty	Rate Rs.	Qty	Cost	Qty	Rate Rs.	Cost	Qty.	Cost	
98	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @320kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walla (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, structs, buttresses, string or lacing courses, parpets, coping, bed blocks, anchor, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing complete as per specification. Specification No. KBS 4.1, 4.6 (P.No. 13/4.11)	Cum	13.28	6594.00	0.00	0.00	0.00	6594.00	0.00	0.00	0.00	
99	Providing and removing centering, shuttering, strutting, propping etc., an removal of form work for sides & soffits of beams, beam hauncing cantilever girders, bressumers & lintels & not exceeding 1.0 in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2	Sqm	40.30	319.00	0.00	0.00	0.00	319.00	0.00	0.00	0.00	
100	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.3	Sqm	72.00	480.00	0.00	0.00	0.00	480.00	0.00	0.00	0.00	
101	Providing and laying in position reinforced cement cocnrete of design mix M20 with OPC cement @ 27.20 Kgs with 12mm & down sizes graded grantie metal coarse aggregated @ 0.5865 cum & fine aggregates, @ 0.391 Cum with super super plastisiser @ 0.225 Ltrs maichine mixed well compacted plain chajja 8.50 Cms avg thickness, up to ground floor level including removing centering, shuttering, strutting, propping etc., and removal of form work for cost of all materials, laobur HOM of machinary, curing complete as per specification.Ground floor	Sqm	3.10	480.00	0.00	0.00	0.00	480.00	0.00	0.00	0.00	
102	Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels of all shapes & sizes, at all elevations & heights.	Sqm	6.20	352.00	0.00	0.00	0.00	352.00	0.00	0.00	0.00	
103	Providing TMT Steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tieng with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc., complete as per specifications. Specification No.KBS 4.6.3. FOR TMT Bars Fe- 500 Ground Floor	Tonne	1.56	77410.00	0.00	0.00	0.00	77410.00	0.00	0.00	0.00	
104	Providing & Constructing Granite/ trap/basalt size stone Masonary in basement with Cement morter 1:8 edges of stone chistle dressed in courses not less than 15 cms high, bond stones at two mtr apart in each course including cost of all materials, labour, curing complete as per specifications	Cum	29.30	5981.00	0.00	0.00	0.00	5981.00	0.00	0.00	0.00	
105	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. In depth, compacting each deposited layer by ramming after watering with lead ... lift upto 1.5m. Inluding cost of all labour complete as per	Cum	29.40	219.00	0.00	0.00	0.00	219.00	0.00	0.00	0.00	

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	Description of work	Unit	Qty	Rate Rs.	Qty	Cost	Qty	Rate Rs.	Cost	Qty.	Cost
106	Providing and constructing Pre cast solid blocks with Compressive strength not less than 35 kg/ sqm with cement morter 1:4 masonary (quion, Jamb, closer block) with solid concrete blocks of size 40 x 15 x 20 cms confirming to IS 2185/1965 in super structures including cost of materials, labour charges, scaffolding, curing complete as per specifications.	Sqm	113.50	1008.00	0.00	0.00	0.00	1008.00	0.00	0.00	0.00
107	Providing & constructing non load bearing walls cemect concrete solid blocks with compressive strength not less than 35 kg/sqm with cement morter 1:4 (jamb, closer blocks) with blocks of size 40X10X20. (LXBXH) confirming to I.S. : 2185/1965 in super structure including cost of materials, labour charges, scaffolding, curing complete as per specification.	Sqm	55.02	885.00	0.00	0.00	0.00	885.00	0.00	0.00	0.00
108	Providing 18mm thick cement plaster in single coat with cement mortor 1:3 to Brick masonary including rounding off corners wherver required smooth rendering.: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	Sqm	149.30	301.00	0.00	0.00	0.00	301.00	0.00	0.00	0.00
109	Providing 18mm thick cement plaster in single coat with cement mortor 1:4, to brick masonry including rounding off corners wherver required smooth rendering.: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(internal)	Sqm	169.30	285.00	0.00	0.00	0.00	285.00	0.00	0.00	0.00
110	Providing 12mm thick cement plaster in single coat with cement mortor 1:3, to ceiling including rounding off corners wherver required smooth rendering.: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. GG	Sqm	56.00	256.00	0.00	0.00	0.00	256.00	0.00	0.00	0.00
111	Providing INTEGRAL CRYSTALINE Waterproofing treatment to the sunken portion of toilets. Using Crystalline Slurry of approved make @ 1.40 kg per SQM in two coats (0.7 Kg per coat) confirming to ASTM S 1202 & DINV 18998 standards.	Sqm	69.12	469.00	0.00	0.00	0.00	469.00	0.00	0.00	0.00
112	Providing and fixing of factorymade 30 mm P.V.C door frame of size 50x47 mm with a wall thickness of 5 mm made out of extrued 5 mm rigid PVC foamsheet metered cut at cornwers & jointed 2 nos 150 mm long brackets of 15 x 15 mm MS Square tube, the entire door frame to be reinforced with 19 x 19 m square tube of 19 gauge. the door frame to be fixed to the wall using MS screws of 65 /80 mm size complete as per manufacturers specification& directions of Engineer in charge.	Sqm	25.83	510.00	0.00	0.00	0.00	510.00	0.00	0.00	0.00
113	Providing & fixing 30mm thick factory made rigid foam Panelled Door Shutters made from M.S. tube of 19 gauge thickness, size 19 x 19mm for styles and 15 x 15mm for top and bottom rails, covered with heat moulded PVC channel of 5mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the styles & rails with 5 x 30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75 mm Aluminium hinges GG	Sqm	23.90	3029.00	0.00	0.00	0.00	3029.00	0.00	0.00	0.00

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114	Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung fully openable as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 kg/m both for outer and inner frames and central mullion section of size 25x46x3mm weighing 2.28 Kg/m duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows not more than 34 cms. c to c including providing and fixing 4mm. thick reeded glass with teakwood beading of required size, all steel sections should confirm to I.S. 7452 : 1990, 4nos, of holdfasts of approved size, section should be cut to length welded and electrically grinded subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be throughly cleaned free of rust and painted with one coat of anti-corosive paint and finishing with two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour, and HOM of machinery complete as per specifications.	Sqm	5.10	4252.00	0.00	0.00	0.00	4252.00	0.00	0.00	0.00	0.00
115	Providing and fixing in position black cuddapah slab / Shahabad Slab/Thandur blue slab 4 cms thick for roofing laid to line and level over wooden rafters or RCC battens pointing exposed joints with cement mortar 1:4 including cost of materials, labour, curing complete as per specifications.	Sqm	5.40	694.00	0.00	0.00	0.00	694.00	0.00	0.00	0.00	0.00
116	Providing ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick cement mortor 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. size 30x30cms	Sqm	57.00	1320.00	0.00	0.00	0.00	1320.00	0.00	0.00	0.00	0.00
117	Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications.	Sqm	85.70	1391.00	0.00	0.00	0.00	1391.00	0.00	0.00	0.00	0.00
118	Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.	Sqm	84.00	120.00	0.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00
119	Providing and applying two coats with oil bound washable distemper of approved brand and shade on Ceiling surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.	Sqm	56.00	129.00	0.00	0.00	0.00	129.00	0.00	0.00	0.00	0.00
120	Water proof cement paint KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint with primer of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.	Sqm	149.30	111.00	0.00	0.00	0.00	111.00	0.00	0.00	0.00	0.00

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Sl.No	Description of work		Qty	Rate Rs.	Qty	Cost	Qty	Rate Rs.	Cost	Qty.	Cost
121	Providing and fixing white vitreous china clay, water closet Indian type (Squatting pan) of size 580mm with footrests, 100mm S or P trap, required, including cutting and making good the wall and floor wherever (approved make) specifications.	Each	8.00	1452.00	0.00	0.00	0.00	1452.00	0.00	0.00	0.00
122	Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11	Each	3.00	3351.00	0.00	0.00	0.00	3351.00	0.00	0.00	0.00
123	Providing & fixing Cl Nahani trap of approved make confirming to ISI specification and construction of cistren in M 15 as per directions	Each	18.00	273.00	0.00	0.00	0.00	273.00	0.00	0.00	0.00
124	Providing and fixing in position CP bib cock of approved quality 20 mm nominal bore including cost of all materials, labour and HOM of equipments with alll leads complete as per specifications.	Each	20.00	189.00	0.00	0.00	0.00	189.00	0.00	0.00	0.00
125	Providing and fixing white vitreous china clay, flat back wash basin size 550x400mm with a single 15mm C.P brass pillar tap with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11	Nos	4.00	3295.00	0.00	0.00	0.00	3295.00	0.00	0.00	0.00
126	Providing and fixing to wall, ceiling and floor , Medium density polyethylene pipes 6.00 kgf /sqcm working pressure — mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor in a) 75 mm dia	M	20.00	356.00	0.00	0.00	0.00	356.00	0.00	0.00	0.00
127	Providing and fixing to wall, ceiling and floor , Medium density polyethylene pipes 6.00 kgf /sqcm working pressure — mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor in b) 90 mm dia	M	35.00	415.00	0.00	0.00	0.00	415.00	0.00	0.00	0.00
128	KSRB 13-9 : Providing and fixing to wall, ceiling and floor , Medium density polyethylene pipes 6.00 kgf /sqcm working pressure — mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor in c) 110 mm dia	M	45.00	491.00	0.00	0.00	0.00	491.00	0.00	0.00	0.00
129	Providing and fixing to wall, ceiling and floor chlorinated poly vinyl chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all cpvc plain and brasss threaded fittings including fixing thepipes with the clamp at 1.00mtr spacing . This includes joining of pipes fittings with one set of cpvc solvent cement and testing of joints complete (Internal works) (Concealed work including cutting chases and good the walls etc.)A)15mm dia pipe nominal OD pipes	M	45.00	225.00	0.00	0.00	0.00	225.00	0.00	0.00	0.00

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Sl.No	Description of work	Unit	Qty	Rate Rs.	Qty	Cost	Qty	Rate Rs.	Cost	Qty.	Cost
139	Supplying, installation, testing and commissioning of solar hot water heater comprising of solar Flat Plate Collector (FPC) of size 2120x1040x100mm and stainless steel hot water storage tank with stainless steel heat exchanger absorber made of copper sheet and copper tube of following capacity aluminium box collector with appropriate capacity electrical back up arrangement excluding inlet and out let pipes.SS Model with 100mm thick of 48Kg/M3 density Rock wool insulation with 22SWG Aluminium cladding. 200 Liter capacity I.No 8.3.3 300 Liter capacity P.No 51 & 52	Each	2.00	60593.00	0.00	0.00	0.00	60593.00	0.00	0.00	0.00
		Total Amount				30357986			23712035		5407002
		GST 12%				3642958			2845444		648842
		Grand Total				34000944			26557479		6056843

Certificate

1 The above work has been Completed satisfactorily
2 The debris has been removed and disposed from the work spot.
3 No. departmental issues are made to the contractor

Contractor Representative

Assistant Engineer

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Asst.Executive Engineer
Yashwanthapura Sub Division

SBR.No

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